1990 Annual Winter Toxicology Forum

L'Enfant Plaza Hotel
Washington, D.C.

February 19-21, 1990

All rights reserved. No portion of this transcript may be reproduced or utilized in any form or by any means, electronic or mechanical, including electrostatic or photocopying, recording, information storage or retrieval systems, or computers, without prior permission in writing from the Board of Directors of the Toxicology Forum.

Some of the materials in this transcript may be available elsewhere, in on form or another; however, it is available nowhere else as it is arranged herein. Although the collection and compilation of information has been carefully prepared and represents a significant employment of staff time and resources, the Toxicology Forum is not responsible for any statements or errors or omissions in the manuscripts or in the transcription of the recorded proceedings. 1990 Toxicology Forum, Inc., 1575 Eye Street, N.W., 5th floor, Washington, D.C. 20005.

2050242181

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

CONTENTS

Monday, February 19, 1990	Page
Session I - APPROPRIATENESS OF ASSUMING LOW DOSE LINEAR FOR SECONDARY CARCINOGENS	
Chairman: W. Gary Flamm, Science Regulatory Systems International, DC	1
IMPACT OF ADDITIVITY THEORY TO REGULATORS Richard Hill, Environmental Protection Agency, DC	2
DISCUSSION	10
STATISTICAL ARGUMENTS Daniel Krewsky, Health and Welfare, Canada	11
STATISTICAL ARGUMENTS Thomas B. Starr, Environ, VA	21
DISCUSSION	25
BIOLOGICAL ARGUMENTS James A. Swenberg, University of North Carolina, Chapel Hill	30
DISCUSSION	45
BIOLOGICAL ARGUMENTS R. Michael McClain, Hoffman-La Roche, Inc., NJ	47
PANEL DISCUSSION Chairman: W. Gary Flamm, Science Regulatory Systems International, DC David W. Gaylor, National Center for Toxicological Research, AR	62
LUNCHEON SESSION	69
Session II - MAXIMUM EXPOSED INDIVIDUAL	
Chairman: Paul Portney, Resources for the Future, DC	73
GENERAL CONCEPTS John Graham, Harvard School of Public Health, MA	74
CRITIQUE I - PUBLIC HEALTH PERSPECTIVE Bernard Goldstein, Environmental & Occupational Health Sciences Institute, NJ	90

2050242182

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

Page

CRITIQUE II - EXPERIMENTALIST'S PERSPECTIVE
Angelo Turturo, National Center for Toxicological Research, AR 97

DISCUSSION 101

ASSESSING THE AIR TOXICS PROBLEM USING AMBIENT DATA
William Hunt, Environmental Protection Agency, NC 108

DISCUSSION 128

NEW LEGISLATION ON AIR POLLUTION
Robert Barnard, Cleary, Gottlieb, Steen & Hamilton, DC 131

SOME THOUGHTS ON MEI PREDICTIVE EXPOSURE ASSESSMENTS
Neil Hawkins, The Dow Chemical Company, MI 138

DISCUSSION 153

2050242183

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

CONTENTS

Tuesday, February 20, 1990 — Page

Session III - HEALTH EFFECTS OF ENVIRONMENTAL TOBACCO SMOKE

Chairman: Gio B. Gori, Health Policy Center, MD — 159

REVIEW OF A WORKSHOP: ASSESSING LOW RISK AGENTS FOR LUNG CANCER
Ragnar Rylander, University of Gothenborg, Sweden — 159

DISCUSSION — 167

ASSESSMENT OF EXPOSURE
Nancy Haley, American Health Foundation, NY — 170

DISCUSSION — 184

EPIDEMIOLOGIC STUDIES OF THE RELATIONSHIP BETWEEN PASSIVE SMOKING AND LUNG CANCER
Geoffrey Kabat, American Health Foundation, NY — 187

DISCUSSION — 200

INVOLUNTARY SMOKING AND LUNG CANCER
Lawrence Garfinkel, American Cancer Society, NY — 202

DISCUSSION — 205

RESPIRATORY EFFECTS
Philip Witorsch, George Washington University, DC — 209

DISCUSSION — 220

HEART DISEASE RISK IN PASSIVE SMOKERS
Dale Sandler, National Institute of Environmental Health Sciences, NC — 223

DISCUSSION — 231

CARDIOVASCULAR EFFECTS
Lawrence M. Wexler, New York Medical College, NY — 235

DISCUSSION — 245

2050242184

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

Page

Session IV: BIOTECHNOLOGY - REPORT OF A PEER REVIEW DEBATE

Chairman: Richard Ronk, Food and Drug Administration, DC 247

GENERAL OVERVIEW: THE PURPOSE AND CONTENT OF THE IFBC REPORT
Richard Hall, International Food Biotechnology Council, DC 248

SAFETY EVALUATION PROCEDURES IN THE IFBC REPORT
Ian Munro, Canadian Centre for Toxicology 252

DISCUSSION 263

ENVIRONMENTAL REVIEW OF BIOENGINEERED PRODUCTS
Buzz Hoffman, Food and Drug Administration, DC 268

DISCUSSION 283

PRACTICAL EXPERIENCE IN REGULATION PRODUCT APPROVAL
Fred Shank, Food and Drug Administration, DC 284

DISCUSSION 291

BOVINE SOMATOTROPIN BST/BGH
Gerald B. Guest, Food and Drug Administration, MD 295

FOOD SAFETY ASSESSMENT FOR THE USE OF BST IN DAIRY COWS
Bruce Hammond, Monsanto, MO 299

DISCUSSION 316

THE SAFETY OF FOODS DERIVED FROM TRANSGENIC ANIMALS
David Berkowitz, U.S. Department of Agriculture, DC 318

DISCUSSION 331

CONSUMER AND CONGRESSIONAL VIEW POINTS
Lesley Russell, Committee on Energy and Commerce,
U.S. House of Representatives, DC 332

DISCUSSION 335

2050242185

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

CONTENTS

Wednesday, February 21, 1990	Page
Session V: REGULATORY UPDATES	
Chairman: Robert J. Scheuplein, Food and Drug Administration, DC	337
FD&C RED 3 Robert J Scheuplein, Food and Drug Administration, DC	337
DISCUSSION	339
DIOXIN IN PAPER PRODUCTS Dwain L. Winters, Environmental Protection Agency, DC	340
DISCUSSION	346
PROPOSITION 65 Lauren Zeise, Department of Health, CA	349
DISCUSSION	354
NCI UPDATE ON IQ (2-AMINO-3-METHYLIMIDAZO (4,5-F) QUINOLINE) Richard Adamson, National Cancer Institute, MD	357
DISCUSSION	363
RISK ASSESSMENT AND THE WAXMAN PESTICIDE BILL Mike Taylor, King & Spalding, DC	367
DISCUSSION	371
THE BENZENE DECISION Jeanette Wiltse, Environmental Protection Agency, DC	373
DISCUSSION	388

20502421 86

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

1990 ANNUAL WINTER TOXICOLOGY FORUM
Loews L'Enfant Plaza Hotel
Washington, DC
February 19-21, 1990

List of Participants

*Faculty

*Dr. Richard H. Adamson
Director, Division of Cancer Etiology
NATIONAL CANCER INSTITUTE
Building 31, Room 11A03
Bethesda, MD 20892
(301) 496-6618

Professor Ulf G. Ahlborg
IMM/KAROLINSKA INSTITUTET
Box 60208
S-10401 Stockholm
Sweden
46-8-728-7530

Dr. Syed N. Alam
Pharmacologist
U.S. FOOD AND DRUG ADMINISTRATION
Parklawn Building, Room 12-B-20
5600 Fishers Lane
Rockville, MD 20850
(301) 443-4300

Larry S. Andrews, Ph.D.
Toxicology Advisor
ARCO CHEMICAL COMPANY
19 Campus Boulevard
Newtown Square, PA 19047
(215) 359-4876

Dr. Martha Arcos
Department of Health and Human Services
Center for Veterinary Medicine
U.S. FOOD AND DRUG ADMINISTRATION
5600 Fishers Lane (HFV-156)
Rockville, MD 20857

Michael Babich
Chemist
U.S. CONSUMER PRODUCT SAFETY COMMISSION
5401 Westbard Avenue
Bethesda, MD 20207
(301) 492-6994

Connie L. Bacon, D.V.M.
USDA/FSIS/S&T/REPD
300 12th Street, S.W.
Washington, DC 20250
(202) 447-2807

*Robert Barnard
CLEARY, GOTTLIEB, STEEN & HAMILTON
1725 N Street, NW
Washington, DC 20036

Lisa Barrera
Senior Vice President
BARRERA ASSOCIATES, INC.
1521 New Hampshire Avenue, N.W.
Washington, DC 20036
(202) 387-6469

Frank Bass
BNA CHEMICAL REGULATION REPORTER
1231 25th Street, NW
Washington, DC 20037
(202) 452-4584

Robert P. Beliles
Project Director, Room HA 354
NATIONAL ACADEMY OF SCIENCES
2101 Constitution Avenue, NW
Washington, DC 20418
(202) 334-2616

20502421 87

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

Bruce K. Bernard, Ph.D.
President
SCIENTIFIC RESEARCH ASSOCIATES, INC.
Suite 202
1220 19th Street, N.W.
Washington, DC 20036
(202) 728-1400

David A. Bergsten
Toxicologist
U.S. DEPARTMENT OF AGRICULTURE
APHIS, BBEP, ED, Room 828
6505 Belcrest Road
Hyattsville, MD 20782
(301) 436-8565

*David Berkowitz
Director, Technology Transfer and Coordination Staff
U.S. DEPARTMENT OF AGRICULTURE
FSIS/S&T/Room 4911 South Building
Washington, DC 20250
(202) 447-8623

Andrea M. Blaschka
Toxicologist
U.S. ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
Washington, DC 20460
(202) 475-8156

Herbert Blumenthal, Ph.D.
Consultant
12545 Two Farm Drive
Silver Spring, MD 20904
(301) 622-4425

Dr. Robert E. Bollinger
Director of Occupational Health
Product Safety/Liability
UNION CARBIDE CORPORATION
39 Old Ridgebury Road
Danbury, CT 06817-0001
(203) 794-5292

Gary A. Boorman, D.V.M., Ph.D.
Chief, Chemical Carcinogenesis Branch
NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES
P.O. Box 12233
Research Triangle Park, NC 27709
(919) 541-3440

Thomas J. Borelli, Ph.D.
Manager, Scientific Issues
PHILIP MORRIS USA
120 Park Avenue
New York, NY 10017
(212) 880-3874

Norma Jean Browder, Ph.D.
Pharmacologist
U.S. FOOD AND DRUG ADMINISTRATION
5600 Fischers Lane
Rockville, MD
(301) 443-4300

David Brusick
Scientific Director
HAZLETON LABORATORIES AMERICA, INC.
9200 Leesburg Turnpike
Vienna, VA 22182
(703) 893-5400 ext. 255

Michael T. Buckley, Esq.
COVINGTON & BURLING
1201 Pennsylvania Avenue, N.W.
Washington, DC 20044
(202) 662-6000

Dr. George A. Burdock
Director, Scientific Affairs
FLAVOR & EXTRACT MANUFACTURERS' ASSOCIATION OF THE U.S. (FEMA)
Suite 925
1620 Eye Street, NW
Washington, DC 20006
(202) 293-5800

2050242188

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

Daniel M. Byrd III, Ph.D., D.A.B.T.
Science Advisor
DISTILLED SPIRITS COUNCIL OF
THE U.S., INC.
Suite 900
1250 Eye Street, NW
Washington, DC 20005
(202) 682-8839

Robert L. Callahan, Jr., Esq.
Vice President and Deputy
General Counsel
THE COCA-COLA COMPANY
P.O. Drawer 1734
Atlanta, GA 30301
(404) 676-2421

Dr. Thomas Cameron
Special Assistant for
Environmental Cancer
NATIONAL CANCER INSTITUTE
Executive Plaza North Building
Room 712
Bethesda, MD 20892
(301) 496-1625

Paul E. Carlson
Director, Health & Environmental
Affairs
CALGON CORPORATION
P.O. Box 1346
Pittsburgh, PA 15230
(412) 777-8446

Dr. Barbara Casey
Pesticide Control Service
DEPARTMENT OF AGRICULTURE AND FOOD
Abbotstown, Castleknock
Dublin 15
Ireland
213041 ext. 568

Dr. P. Chamberlain
Department of Health and Human
Services
Center for Veterinary Medicine
U.S. FOOD AND DRUG ADMINISTRATION
5600 Fishers Lane (HFV-135)
Rockville, MD 20857

Charles R. Clark
Manager of Toxicology and
Product Safety
UNOCAL 76
1201 West 5th Street
P.O. Box 7600
Los Angeles, CA 90051
(213) 977-6761

John J. Clary, Ph.D.
BIO RISK
599 Springfield, Avenue
Berkeley Heights, NJ 07922
(201) 665-0101

Dr. Andrew Cockburn
SCHERING AGROCHEMICALS LIMITED
Chesterford Park Research Station
Saffron Walden
Essex CB10 1XL
United Kingdom
(0799) 30123

Dr. R. Condon
Department of Health and Human
Services
Center for Veterinary Medicine
U.S. FOOD AND DRUG ADMINISTRATION
5600 Fishers Lane (HFV-126)
Rockville, MD 20857

John Sebastian Coombs
JOHN COOMBS, P.C.
7/174 Phillip Street
Sydney N8W
Australia
(02) 232-7754

Peter H. Craig, V.M.D.
Manager, Health Risk Assessment
MOBIL OIL CORPORATION
Toxicology Division
P.O. Box 1029
Princeton, NJ 08543-1029
(609) 737-5522

20502421B9

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

Malcolm C. Crew, Ph.D
Section Head
NORWICH EATON PHARMACEUTICALS, INC.
P.O. Box 191
Norwich, NY 13815
(607) 335-2661

Denny Cruz
Chemical Engineer
U.S. ENVIRONMENTAL PROTECTION AGENCY
401 M Street, SW
Washington, DC 20460
(202) 382-4785

Karen Deasy
Associate Director for Policy
Office on Smoking and Health
CENTERS FOR DISEASE CONTROL
5600 Fishers Lane
Park Building, Room 1-16
Rockville, MD 20857
(301)443-1575

Patricia DeLuca
Associate Research and
Development Chemist
R.J. REYNOLDS TOBACCO CO.
Bowman Gray Technical Center
611-12-103E
Winston-Salem, NC 27102
(919) 741-4177

Lois Dicker
Biologist
U.S. ENVIRONMENTAL PROTECTION AGENCY
401 M Street, SW (TS-778)
Washington, DC 20460
(202) 382-3387

Dr. Barbara B. Doonan
Senior Scientist
UNITED STATES TOBACCO COMPANY
100 West Putnam Avenue
Greenwich, CT 06830
(203) 662-3276

Ted Dunkelberger
Consultant
WASHINGTON TECHNICAL INFORMATION
GROUP, INC.
Suite 305
2828 Pennsylvania Avenue, NW
Washington, DC 20007
(202) 342-8077

Dr. Otho D. Easterday
Vice President and Chief Product
Safety Assurance Officer
INTERNATIONAL FLAVORS & FRAGRANCES,
INC.
1515 Highway 36
Union Beach, NJ 07735
(201) 888-2249

Andrew G. Ebert
Senior Vice President
THE ROBERT H. KELLEN COMPANY
Suite 500D
5775 Peachtree-Dunwoody Road
Atlanta, GA 30342
(404) 252-3663

Professor D. J. Ecobichon
Department of
Pharmacology/Therapeutics
McGILL UNIVERSITY
3655 Drummond Street
Montreal, Quebec
Canada H3G 1Y6
(514) 398-3604

Robert L. Elder, Sc.D.
Director
COSMETIC INGREDIENT REVIEW
Suite 810
1110 Vermont Avenue, NW
Washington, DC 20005
(202) 331-0651

James L. Emerson, Ph.D.
THE COCA-COLA COMPANY
P.O. Drawer 1734
Atlanta, GA 30301
(404) 676-5390

2050242190

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

Prof. Dr. Victor Feron
TNO-CIVO TOXICOLOGY AND NUTRITION INSTITUTE
Utrechtseweg 48
3704 HE Zeist
The Netherlands
(31) 3404 44 144

Dr. John L. Festa
Director, Chemical & Health Program
AMERICAN PAPER INSTITUTE
1250 Connecticut Avenue, N.W.
Washington, DC 20036
(202) 463-2587

Dr. S. Fitzpatrick
Department of Health and Human Services
Center for Veterinary Medicine
U.S. FOOD AND DRUG ADMINISTRATION
5600 Fishers Lane
Rockville, MD 20857

*W. Gary Flamm, Ph.D.
SCIENCE REGULATORY SERVICES INTERNATIONAL
Suite 975
1625 K Street, NW
Washington, DC 20005
(202) 223-0157

Joseph L. Fleiss
Professor of Biostatistics
COLUMBIA UNIVERSITY
600 West 168th Street
New York, NY 10032
(212) 305-1807

Dr. Robert Furrow
Department of Health and Human Services
Center for Veterinary Medicine
U.S. FOOD AND DRUG ADMINISTRATION
5600 Fishers Lane (HFV-101)
Rockville, MD 20857

*Lawrence Garfinkel
Vice President, Epipidemiology and Statistics
AMERICAN CANCER SOCIETY
1180 Avenue of Americas
New York, NY 10036
(212) 382-2130

*David W. Gaylor
Director, Biometry
National Center for Toxicological Research
U.S. FOOD AND DRUG ADMINISTRATION
Jefferson, AR 72079
(501) 541-4001

Michael E. Ginevar
Senior Scientist
RiskFocus Division
VERSAR INC.
6850 Versar Center
Springfield, VA 22151
(703) 642-6911

Gary Giovino
Epidemiologist
Office on Smoking and Health
CENTERS FOR DISEASE CONTROL
Park Building, Room 1-16
5600 Fishers Lane
Rockville, MD 20857
(301) 443-0620

*Bernard D. Goldstein, M.D.
Professor and Chairman
Department of Environmental and Community Medicine
UMDNJ-ROBERT WOOD JOHNSON MEDICAL SCHOOL
675 Hoes Lane
Piscataway, NJ 08854-5635
(201) 463-4638

*Mari Golub, Ph.D.
UC Davis Primate Center
CALIFORNIA DEPARTMENT OF HEALTH
Room 455, 714 P Street
Sacramento, CA 94234

20502191

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

Robert A. Goodnow, Ph.D.
Director of Regulatory Affairs
EASTMAN KODAK COMPANY
95 Allen's Creek Road
Rochester, NY 14650-0820
(716) 781-1518

*Gio B. Gori, Ph.D.
HEALTH POLICY CENTER
6704 Barr Road
Bethesda, MD 20816
(301) 229-4277

*John D. Graham
Associate Profesor
HARVARD SCHOOL OF PUBLIC HEALTH
677 Huntington Avenue
Boston, MA 02115
(617) 732-1090

*Gerald B. Guest, Ph.D.
Director
Center for Veterinary Medicine
U.S. FOOD AND DRUG ADMINISTRATION
5600 Fishers Lane (HFV-1)
Rockville, MD 20857

*Nancy J. Haley
Head, Clinical Biochemistry
AMERICAN HEALTH FOUNDATION
One Dana Road
Valhalla, NY 10595
(914) 592-2600 ext. 348

*Richard L. Hall, Ph.D.
7004 Wellington Court
Baltimore, MD 21212
(301) 377-2909

*Dr. Bruce C. Hammond
Toxicologist, Regulatory Affairs
MONSANTO AGRICULTURAL COMPANY
800 N. Lindbergh Boulevard - B2SC
St. Louis, MO 63167
(314) 694-2179

Mary E. Harris
Senior Regulatory Associate
SMITHKLINE BEECHAM ANIMAL HEALTH
1600 Paoli Pike
West Chester, PA 19380
(215) 251-7589

*Neil C. Hawkins
Senior Research Industrial Hygienist
THE DOW CHEMICAL COMPANY
Health and Environmental Sciences
1803 Building
Midland, MI 48674
(517) 636-8237

A. Wallace Hayes, Ph.D.
Corporate Toxicologist
RJR NABISCO, INC.
Bowman Gray Technical Center
Winston-Salem, NC 27102
(919) 741-5870

William C. Hayes
Environmental Specialist
DOW CHEMICAL COMPANY
2020 WHDC
Midland, MI 48674
(517) 636-2664

*Dr. Richard Hill
Office of Pesticides and Toxic Substances
U.S. ENVIRONMENTAL PROTECTION AGENCY
401 M Street, SW (TS-788)
Washington, DC 20460

*Buzz L. Hoffmann
Chief, Environmental Impact Section
U.S. FOOD AND DRUG ADMINISTRATION
HFF-304, Room 5157
200 C Street, SW
Washington, DC 20204
(202) 485-0276

205024192

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

Professor Bo Holmberg
Department of Toxicology
NATIONAL INSTITUTE OF OCCUPATIONAL HEALTH
S-171 84 SOLNA
Sweden
46-8-730-9759

Dr. Ronald D. Hood
Department of Biology
THE UNIVERSITY OF ALABAMA
Tuscaloosa, AL 35487-0344
(205) 348-1817

Donald H. Hughes, Ph.D.
Scientific Coordinator
THE PROCTER & GAMBLE COMPANY
5299 Spring Grove Avenue
Cincinnati, OH 45217
(513) 627-5254

Robert D. Humbert, Ph.D.
Manager, Food Safety
Science and Technology Center
KELLOGG COMPANY
235 Porter Street
P.O. Box 3423
Battle Creek, MI 49016-3423
(616) 961-2284

*William F. Hunt, Jr.
Chief, Monitoring and Reports Branch
Office of Air Quality Planning and Standards
U.S. ENVIRONMENTAL PROTECTION AGENCY
Research Triangle Park, NC 27711
(919) 541-5559

Hiroyuki Ishii, D.V.M.
Representative, Scientific Affairs
AJINOMOTO CO., INC.
Suite 704
1001 Connecticut Avenue, NW
Washington, DC 20036
(202) 457-0284

Dr. Rudolph Jaeger
President
ENVIRONMENTAL MEDICINE, INC.
263 Center Avenue
Westwood, NJ 07675
(201) 666-7929

Dr. Eric Jannerfeldt
EMBASSY OF SWEDEN
600 New Hampshire Avenue, NW
Washington, DC 20037
(202) 944-5600

Dr. Jeang
Department of Health and Human Services
Center for Veterinary Medicine
U.S. FOOD AND DRUG ADMINISTRATION
5600 Fishers Lane (HFV-133)
Rockville, MD 20857

Mr. Roger Jennings
Science Attache
BRITISH EMBASSY
3100 Massachusetts Ave., NW
Washington, DC 20008
(202) 898-4324

Edwin L. Johnson
Director, International Cooperation Division
U.S. ENVIRONMENTAL PROTECTION AGENCY
401 M Street, SW (A-106)
Washington, DC 20460
(202) 382-4878

Dr. David A. Jonas
Head of Biotechnology and Novel Foods Branch
MINISTRY OF AGRICULTURE, FISHERIES AND FOOD
R218 Ergon House, c/o Nobel House
17 Smith Square
London SW1P 3HX
United Kingdom
(01) 238 6167

205024193

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

*Geoffrey C. Kabat, Ph.D.
Senior Epidemiologist
AMERICAN HEALTH FOUNDATION
320 East 43 Street
New York, NY 10017
(212) 953-1900 ext. 264

Dr. Linda Kahn
Veterinary Medical Officer/
Animal Scientist
Center for Veterinary Medicine
U.S. FOOD AND DRUG ADMINISTRATION
5600 Fishers Lane (HFV-112)
Rockville, MD 20857
(301) 443-3430

Murray Kaiserman, Ph.D.
Chemist
Tobacco Products
Health Protection Branch
HEALTH AND WELFARE CANADA
EHC-236, Tunney's Pasture
Ottawa, Ontario K1A 0L2
Canada
(613) 954-5851

Bulent Karabag
Paralegal
CHADBOURNE & PARKE
24th Floor
30 Rockefeller Plaza
New York, NY 10112
(212) 554-5471

Dr. Shinobu Kato
Chief Toxicologist
SHISEIDO CO., LTD
15th Floor
900 Third Avenue
New York, NY 10022

Joseph Kawalek
Research Chemist
Center for Veterinary Medicine
U.S. FOOD AND DRUG ADMINISTRATION
Agricultural Research Center
Center Road, Building 328A
Beltsville, MD 20705
(301) 344-2558

Professor Donald W. King
UNIVERSITY OF CHICAGO
5841 Mary Lane
Chicago, IL 60637
(312) 702-3460

John C. Kirschman, Ph.D.
Consultant
FSC ASSOCIATES
P.O. Box 718
Lewisville, NC 27023
(919) 945-4847

Albert C. Kolbye, Jr., M.D.
President
KOLBYE ASSOCIATES
7313 Helmsdale Road
Bethesda, MD 20815
(301) 320-2900

*Dr. Daniel Krewsky
Chief, Biostatistics and Complete
Applications Division
Environmental Health Directorate
Environmental Health Center
HEALTH AND WELFARE CANADA
Tunney's Pasture
Ottawa, Ontario K1A OL2
Canada

James K. Kwiat
Specialist
U.S. ENVIRONMENTAL PROTECTION AGENCY
401 M Street, SW
Washington, DC 20460
(202) 382-3563

David Y. Lai, Ph.D.
Toxicologist
U.S. ENVIRONMENTAL PROTECTION AGENCY
OTS/HERD/OB (TS-796)
401 M Street, SW
Washington, DC 20460
(202) 382-4301

2050242194

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

Lanny Lake, Ph.D.
Toxicologist
INTERNATIONAL CHEMICAL CONSULTANTS
4600 Pinecrest Office Park Drive
Alexandria, VA 22312
(703) 658-8888

Robert E. Landers
Director, Nutrition & Toxicology
BEST FOODS, CPC INTERNATIONAL, INC.
1120 Commerce Avenue
Union, NJ 07083
(201) 688-9000

Maxwell Layard, Ph.D.
President
LAYARD & ASSOCIATES
2242 San Antonia Avenue
Alamda, CA 94501
(415) 521-2154

Maurice LaVois, Ph.D.
HES-WEST
#4 Emborcodero Center
Suite 2000
San Francisco, CA 94111
(415) 435-518

Dr. David Lean
UNIVERSITY OF OTTAWA
Department of Biology
Ottawa, Ontario KIN CN5
Canada
(613) 564-4254

Dr. C. C. Lee
Senior Science Advisor
HERD (TS-796)/OTS/EPA
401 M Street, S.W.
Washington, DC 20460
(202) 382-4250

Ms. Mayada Logue
Scientist
PHILIP MORRIS USA
P.O. Box 26603
Richmond, VA 23261
(804) 274-3189

Dr. David Longfellow
Chief, Chemicals and Physical
Carcinogenesis Branch
NATIONAL CANCER INSTITUT
6130 Executive Boulevard
Suite 700
Executive Plaza North
Bethesda, MD 20892
(301) 496-9448

Stanton C. Lovre
Senior Consultant of Toxicology
ARCO CHEMICAL COMPANY
515 S. Flower Street
Los Angeles, CA 90071
(213) 486-0922

Dr. John Loy
Secretary
National Health and Medical
Research Council
AUSTRALIAN DEPARTMENT OF
COMMUNITY SERVICES & HEALTH
P.O. Box 9848
GPO Canberra ACT 2601
Australia
61-62-898083

Carl R. Mackerer, Ph.D.
Manager, Toxicology
MOBIL OIL CORPORATION
P.O. Box 1029
Princeton, NJ 08543
(609) 737-5520

Eileen Madden, Ph.D.
Director of Scientific Affairs
NESTLE FOODS CORPORATION
100 Manhattanville Road
Purchase, NY 10577
(914) 251-3818

2050242195

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000

Desmond C. Mahon
Biotechnology Advisor
Food Directorate, Health
Protection Branch
HEALTH AND WELFARE CANADA
Room 2-2, HPB Building
Ottawa, Ontario K1A 0L2
Canada
(613) 957-1675

Alex Malaspina, Ph.D.
Senior Vice President
External Technical Affairs
THE COCA-COLA COMPANY
P.O. Drawer 1734
Atlanta, GA 30301
(404) 676-4200

William Marcus
Senior Science Advisor
and Chief
U.S. ENVIRONMENTAL PROTECTION
AGENCY
401 M Street, S.W.
Washington, DC 20204
(202) 972-0707

Dr. T. Matula
Research Scientist
HEALTH AND WELFARE CANADA
Banting Research Centre, 2W
Tunney's Pasture
Ottawa, Ontario
Canada
(613) 957-0958

*R. Michael McClain, Ph.D.
Director of Toxicology
HOFFMANN LA ROCHE INC.
340 Kingsland Street
Nutley, NJ 07110-1199
(201) 235-4527

G. N. McEwen, Jr., Ph.D., J.D.
Vice President - Science
COSMETIC, TOILETRY AND
FRAGRANCES ASSOCIATION
1110 Vermont Avenue, NW
Washington, DC 20005
(202) 331-1770

Bruce Means
Chief, Health Effects Program
U.S. ENVIRONMENTAL PROTECTION
AGENCY
401 M Street, S.W.
Washington, DC 20460
(202) 382-2201

Dr. M. Miller
Department of Health and Human
Services
Center for Veterinary Medicine
U.S. FOOD AND DRUG ADMINISTRATION
5600 Fishers Lane (HFV-156)
Rockville, MD 20857

Robert J. Moolenaar, Ph.D.
Project Director
THE DOW CHEMICAL COMPANY
1803 Building
Midland, MI
(517) 636-0655

Dr. Paul E. Morrow
Emeritus Professor of Toxicology
UNIVERSITY OF ROCHESTER
Box EHSC, Medical Center
Rochester, NY 14642
(716) 275-3861

*Dr. Ian C. Munro
Director
CANADIAN CENTRE FOR TOXICOLOGY
645 Gordon Street
Guelph, Ontario N1G 1Y3
Canada
(519) 837-3320

2050242196

Source: https://www.industrydocuments.ucsf.edu/docs/yjgl0000